

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/03463

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ G09F9/00, G06F1/16, H05K5/02, H05K7/12, G02F1/1333

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ G09F9/00, G06F1/16, H05K5/02, H05K7/12, G02F1/1333

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2002
Kokai Jitsuyo Shinan Koho	1971-2002	Jitsuyo Shinan Toroku Koho	1996-2002

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	JP 3051361 U (Sanyo Electric Co., Ltd.), 03 June, 1998 (03.06.98), Full text; Figs. 1, 2 (Family: none)	1-4, 6-11, 13-17 5, 12
Y A	JP 2000-181371 A (NEC Corp.), 30 June, 2000 (30.06.00), Page 6, right column, line 30 to page 7, left column, line 4; Figs. 12, 13 & CN 1257237 A	1-4, 6-11, 13-17 5, 12
Y A	JP 2001-83887 A (NEC Engineering Kabushiki Kaisha), 30 March, 2001 (30.03.01), Page 3, left column, line 9 to right column, line 9; Figs. 1, 2 (Family: none)	2, 3, 8 18-22, 24-28 23

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

23 May, 2002 (23.05.02)

Date of mailing of the international search report

04 June, 2002 (04.06.02)

Name and mailing address of the ISA/

Japanese Patent Office

Authorized officer

Facsimile No.

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INTERNATIONAL SEARCH REPORT

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 5-150224 A (NEC Corp., Sanyo Electric Co., Ltd.), 18 June, 1993 (18.06.93), Page 3, left column, line 41 to right column, line 38; Figs. 2 to 4 & US 5379182 A	4
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 12609/1992 (Laid-open No. 73790/1993) (Matsushita Electric Industrial Co., Ltd.), 08 October, 1993 (08.10.93), Page 6, line 22 to page 7, line 11; Figs. 1, 3 (Family: none)	5
Y	JP 2001-27912 A (Sanyo Electric Co., Ltd., Tottori Sanyo Electric Co., Ltd.), 30 January, 2001 (30.01.01), Full text; Figs. 1 to 3 (Family: none)	7
Y	JP 11-85319 A (International Business Machines Corp.), 30 March, 1999 (30.03.99), Page 6, left column, line 19 to right column, line 3; Figs. 2, 3 & US 6064565 A	9, 10, 24, 28
Y	JP 11-190974 A (Fujitsu Ltd.), 13 July, 1999 (13.07.99), Page 2, right column, line 41 to page 3, left column, line 10; Fig. 1 (Family: none)	13, 14
Y	JP 2000-250014 A (Sanyo Electric Co., Ltd., Tottori Sanyo Electric Co., Ltd.), 14 September, 2000 (14.09.00), Page 2, right column, lines 39 to 47; Fig. 1 (Family: none)	17
Y A	JP 11-184392 A (Sanyo Electric Co., Ltd., Tottori Sanyo Electric Co., Ltd.), 09 July, 1999 (09.07.99), Full text; Figs. 1 to 6 (Family: none)	18-22, 24-28 23

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

The feature common to claims 1 to 17 and claims 18 to 28 is an idea of attaching a fixing member to the sides of the flat unit via a screw. However, the search has revealed that this idea is not novel since it is disclosed in documents JP 11-85319 A (International Business Machines Corporation), 1999.03.30, JP 11-184392 A (Sanyo Electric Co., Ltd.), 1999.07.09, and JP 3051361 U (Sanyo Electric Co., Ltd.), 1998.06.03.

Consequently, the common feature is not a special technical feature within the meaning of PCT Rule 13.2, second sentence. Consequently, it appears that, a posteriori, claims 1 to 17 and claims 18 to 28 do not satisfy the requirement of unity of invention.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.